HELMINTHOLOGICAL ABSTRACTS

Helm

SERIES A
ANIMAL AND HUMAN HELMINTHOLOGY

Volume 47

Prepared by

Commonwealth Institute of Helminthology

1978

ISSN 0300-8339

© *Commonwealth Agricultural Bureaux 1979*

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London, S.W.1.

published by

Commonwealth Agricultural Bureaux,
Farnham House, Farnham Royal,
SLOUGH SL2 3BN, UK.

printed by
Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, UK.

COMMONWEALTH AGRICULTURAL BUREAUX

The Commonwealth Agricultural Bureaux (CAB) is a co-operative venture established by Commonwealth Governments to provide information and other specialised services for scientists and professional workers in agriculture and related fields. The organisation is controlled by an Executive Council composed of nominees of the various Commonwealth Governments, including one for the Dependent Territories. The following pages list the present members of the Executive Council, and Liaison Officers who form the primary link in the member country.

CAB has three main functions: a world agricultural information service, an identification service for entomology, mycology and helminthology, and a biological control service. CAB's information service is based on 26 abstract journals which, taken together, cover the whole range of agricultural science. Contemporary world literature in many languages is scanned for items worthy of noting by abstract or titles in the journals. Since 1973 all references have been made available in machine-readable form for batch searching and on-line retrieval. The data base contains approximately 750,000 records and is increasing by 12,000 per month. Other publications include technical periodicals, annotated bibliographies, review articles and books. An information retrieval service ensures that individual needs are met, and also supplies photocopies of source papers.

The work of CAB is largely carried out through a number of Institutes and Bureaux, each dealing with a particular aspect of agricultural science. Enquiries on scientific aspects of CAB work should be sent to the Director of the appropriate Bureau. Other enquiries should be sent to the Executive Director, CAB, at the address below, or to Liaison Officers in member countries.

Headquarters

Farnham House, Farnham Royal, Slough SL2 3BN, UK

Executive Director: N.G. Jones, DFC, BSc
Editorial Director: J.R. Metcalfe, MA, PhD
Scientific Adviser: E.K. Woodford, OBE, MSc, PhD

Institutes

Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR
Director: N.C. Pant, MScAgr, DIC, PhD.
Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF
Director: A. Johnston, BSc, AICTA, FIBiol.
Commonwealth Institute of Biological Control, Gordon Street, Curepe, Trinidad, West Indies
Director: F.D. Bennett, BSA, PhD.
Commonwealth Institute of Helminthology, The White House, 103 St. Peter's Street, St. Albans, AL1 3EW, Herts.
Director: Miss S.M. Willmott, PhD, FIBiol.

Bureaux

Agricultural Economics, Dartington House, Little Clarendon Street, Oxford OX1 2HH
Director: J.O. Jones, MA.
Animal Breeding and Genetics, Animal Breeding Research Organization, The King's Buildings, West Mains Road, Edinburgh EH9 3JX
Director: J.D. Turton, BSc, MRCVS, DTVM.
Animal Health, Central Veterinary Laboratory, New Haw, Weybridge, KT15 3NB, Surrey
Director: R.M. Mack, FRCVS
Dairy Science & Technology, Lane End House, Shinfield, Reading RG2 9BB
Director: E.J. Mann, NDD, CDD.
Forestry, Commonwealth Forestry Institute, South Parks Road, Oxford OX1 3RD
Director: W. Finlayson, BSc.
Horticulture & Plantation Crops, East Malling Research Station, Maidstone ME19 6BJ, Kent
Director: D.J. O'D. Bourke, MA, DipAgr, FLS.
Nutrition, Rowett Research Institute, Bucksburn, Aberdeen AB2 9SB
Ag. Director: R. Hankin, MA, DipEd, M.I.Inf.Sc.
Pastures & Field Crops, Hurley, Maidenhead SL6 5LR
Director: P.J. Boyle, MA.
Plant Breeding & Genetics, Department of Applied Biology, Pembroke Street, Cambridge CB2 3DX
Director: R.H. Richens, MA, PhD.
Soils, Rothamsted Experimental Station, Harpenden AL5 2JQ
Director: B. Butters, MSc, DipAgr, DTA, DIC, ARCS.

EXECUTIVE COUNCIL

(as at 1 October 1978)

Member	*Representing*
G.M.P. MYERS (Chairman)	United Kingdom
W.S. GOODEN (Vice-Chairman)	Jamaica
J. KOOP	Canada
Dr. R.M. MOORE	Australia
T.N. TANDON	India
(to be appointed)	Sri Lanka
R.W. FOSTER	New Zealand
Y.N. CHENE-AKRASI	Ghana
THE SECOND SECRETARY	Malaysia
THE FIRST SECRETARY	Nigeria
J.K. SHEKERIS	Cyprus
H.E. THE HIGH COMMISSIONER	Sierra Leone
Mrs. L.E. HOWELL	Tanzania
Mrs. J. MASSIAH	Trinidad & Tobago
H.E. THE HIGH COMMISSIONER	Kenya
H.E. THE HIGH COMMISSIONER	Malawi
THE TRADE COMMISSIONER	Zambia
A.T. SALLAH	The Gambia
Mrs. P.N. WALDRON-MOORE	Guyana
H.E. THE HIGH COMMISSIONER	Botswana
T. NARRAINEN	Mauritius
P.K. MISHRA	Fiji
R.A. KHAN	Bangladesh
H.E. THE HIGH COMMISSIONER	The Bahamas
J.E. WHITELEGG	Dependent Territories

C. deLAET, Secretary, Commonwealth Science Council (Observer)

N.G. JONES, DFC, BSc (Executive Director)

LIAISON OFFICERS

(as at 1 September 1978)

Contributing country	*Liaison Officer*	*Address*
United Kingdom	Under Secretary	Agricultural Research Council, 160, Great Portland Street, London W1N 6DT.
Canada	G.M. Carman, BSA, MSc, PhD.	Director, Information Division, Administration Branch, Canada Department of Agriculture, 1105 Sir John Carling Building, Ottawa, Ontario, K1A OC7.
Australia	P.F. Butler, MAgrSc.	Senior Assistant Secretary (Research) Commonwealth Scientific & Industrial Research Organization, PO Box 225, Dickson, ACT 2602.
New Zealand	G.W. Butler, MSc, Fildr, FRSNZ.	Assistant Director-General, Department of Scientific and Industrial Research, Private Bag, Wellington.

India	M.S. Swaminathan, BSc, BScAgr, PhD, FNA, FASc, FRS	Director-General, Indian Council of Agricultural Research, Krishi Bhavan, New Delhi 1.
Sri Lanka	C.R. Panabokke, BSc, PhD.	Deputy Director of Agriculture (Research), Central Agricultural Research Institute, Gannoruwa, Peradeniya.
Ghana	Executive Chairman	Council for Scientific & Industrial Research, PO Box M.32, Accra.
Malaysia	Permanent Secretary	Ministry of Agriculture & Co-operatives, Swettenham Road, Kuala Lumpur.
Nigeria	Permanent Secretary	Federal Ministry of Agriculture & Rural Development, Administration Division, P.M.B. 12613, Lagos, Nigeria.
Cyprus	Director-General	Ministry of Agriculture & Natural Resources, Nicosia.
Sierra Leone	Senior Lecturer	Njala University College, PMB Freetown.
Tanzania	Director of Agriculture	PO Box 9071, Dar-es-Salaam.
Jamaica	I.E. Johnson, PhD, MSc, DICTA, FEDI.	Chief Technical Officer, Ministry of Agriculture, PO Box 480, Kingston 6.
Trinidad & Tobago	Technical Officer (Crop Research)	Ministry of Agriculture, Lands & Fisheries, St. Clair Circle, Port-of-Spain, Trinidad.
Kenya	Director of Agriculture	Ministry of Agriculture, PO Box 30028, Nairobi.
Malawi	Chief Agricultural Research Officer	Ministry of Agriculture & Natural Resources, PO Box 30134, Capital City, Lilongwe 3, Malawi.
Zambia	Permanent Secretary	Ministry of Rural Development, PO Box RW.197, Lusaka.
The Gambia	Permanent Secretary	Ministry of Agriculture & Natural Resources, The Quadrangle, Banjul, The Gambia.
Guyana	Deputy Chief Agricultural Office (Research)	Ministry of Agriculture PO Box 1001, Georgetown.
Botswana	Permanent Secretary	Ministry of Agriculture, Common Service Division, Private Bag 0028, Gaborone.
Mauritius	B.D. Roy	Chief Agricultural Officer, Agricultural Services, Reduit.
Fiji	Permanent Secretary	Agriculture, Fisheries & Forests, Rodwell Road, Suva.
Bangladesh	Dr. K. Badruddoza MAgr, PhD, DipGenPB.	Director, Bangladesh Agricultural Research Institute, 87 Pioneer Road, Kakrail, Dacca-2.
The Bahamas	Director of Agriculture	Ministry of Agriculture & Fisheries, PO Box 3028, Nassau. N.P.
Dependent Territories	R.K. Cunningham, BSc, PhD, FRIC.	Agricultural Adviser, Ministry of Overseas Development, Eland House, Stag Place, London SW1E 5DH.

HELMINTHOLOGICAL ABSTRACTS
SERIES A
ANIMAL & HUMAN HELMINTHOLOGY

Volume 47, 1978

This journal is prepared by the staff of the Commonwealth Institute of Helminthology, The White House, 103 St. Peter's Street, St. Albans, Hertfordshire, England AL1 3EW.

Director: Sheila Willmott, Ph.D., F.I. Biol.
Consultant Director:Professor G.S. Nelson, M.D., D.Sc.
Assistant Director: P.S. Gooch, B.Sc., M.I.Inf.Sc.

Scientific Staff: Mary T. Franklin D.Sc. (part-time), Elisabeth Gascoigne F.I.L., Lynda M. Gibbons Ph.D., C.W. Gordon B.A., F. Hawking D.M., F.R.C.P., D.T.M., Arlene Jones Ph.D., L.F. Khalil Ph.D., Margaret M. Macdonald B.Sc., Janet E. Machon B.Sc., G.P. Ogbourne Ph.D., K.J. Orton Williams B.Sc., Grazyna I. Pozniak (part-time), I.C. Shephard B.A., M.R. Siddiqi D.Sc.

Supporting Staff: E. Beryl Bull (part-time), Beryl Cunningham (part-time), Susan J. Darby, G.W. Dimmock, Sheila N. Eames (part-time), Yvonne A. Emery (part-time), Mavis J. Getley (part-time), Barbara I. Gibson, Audrey M. Godman (part-time), M. Eileen Gordon (part-time), Doris M. Harris (part-time), Helen J. Hart (part-time), Susan Ibbison, Margaret A. Smith, Joyce M. Trott (part-time), Lorna M. Twiddy, Hilary J. White B.Sc., Elisabeth Widdowson (part-time).

Abstracts and Book Reviews in this volume are by: G.W.F. Claxton, K.R. Cook, J.J. Czipri, M.T. Franklin, E. Gascoigne, L.M. Gibbons, P.S. Gooch, C.W. Gordon, F. Hawking, W. Houston, A. Jones, L.F. Khalil, M. Macdonald, C.P. Ogbourne, G.I. Pozniak, I.C. Shephard, Y. Tigin, M. de O. Tollemache, L. Vinduška, S. Willmott

OFFICIAL CORRESPONDENTS OF THE COMMONWEALTH INSTITUTE OF HELMINTHOLOGY

Animal and Human Helminthology

ANTIGUA Director of Agriculture, Department of Agriculture, Friars Hill, Antigua, West Indies.

AUSTRALIA Dr. Hugh McL. Gordon, C.S.I.R.O. Division of Animal Health, McMaster Laboratory, C.S.I.R.O., P.O. Box 1, Glebe, N.S.W. 2037.

BAHAMAS Director of Agriculture, Dept. of Agriculture and Marine Products, P.O. Box 28, Nassau.

BANGLADESH Director of Agriculture (R & E) 87 Pioneer Road, Kakrail, Dacca.

BARBADOS Senior Veterinary Officer, Department of Science and Agriculture, P.O. Box 505, Bridgetown.

BERMUDA Director of Agriculture, Agricultural Station, Paget East.

BOTSWANA Director of Veterinary Services, Private Bag 32, Gaborone.

BRITISH SOLOMON ISLANDS Senior Agricultural Officer, Dept. of Agriculture, Honiara, British Solomon Islands Protectorate.

BRITISH VIRGIN ISLANDS Superintendent of Agriculture, Agricultural Dept. Tortola, British Virgin Islands, West Indies.

BRUNEI State Agricultural Officer, Brunei.

CANADA Prof. R.C. Anderson, Department of Zoology, University of Guelph, Guelph, Ontario.

CYPRUS M.A. Petris, Director, Veterinary Department, Ministry of Agriculture and Natural Resources, Nicosia.

FIJI Chief Veterinary Officer, Suva.

GAMBIA Principal Veterinary Officer, Abuko, via Bathurst.

GHANA Dr. Letitia E. Obeng, Institute of Aquatic Biology, P.O. Box 38, Achimota.

GUYANA To be nominated.

HONG KONG D.A. Higgins, c/o Director, Agriculture and Fisheries Dept., Canton Road Government Offices, 393 Canton Road, 12th-14th Floor, Kowloon.

INDIA Dr. Karam Chand, Professor of Parasitology, Harayana Agricultural University, Hissar, Harayana.

JAMAICA To be nominated.

KENYA Chief Veterinary Research Officer, c/o Ministry of Agriculture, P.O. Kabete.

MALAWI Director of Veterinary Services, Ministry of Natural Resources and Surveys, P.O. Box 34, Zomba, G.K. Mehra, Veterinary Research Service, Box 55, Blantyre.

MALAYSIA

MALAYA Director of Veterinary Services, Swettenham Road, Kuala Lumpur.

SABAH Senior Veterinary Officer, P.O. Box 105, Jesselton.

SARAWAK Director of Agriculture, Dept. of Agriculture, Kuching.

MAURITIUS Senior Veterinary Officer, Agricultural Services, Reduit.

MONTSERRAT Director of Agriculture, Agricultural Dept., The Groves, Montserrat, West Indies.

NEW ZEALAND Dr. L.K. Whitten, Wallaceville Animal Research Station, Private Bag, Wellington.

NIGERIA Director, Federal Dept. of Veterinary Research, Vom, Benue Plateau State.

LAGOS STATE Permanent Secretary, Ministry of Agriculture and Natual Resources Trade and Industry, Lagos.

WESTERN STATE Permanent Secretary, Ministry of Agriculture and Natural Resources, Ibadan.

NORTH-CENTRAL STATE Director, Institute of Agricultural Research, Samaru, Private Mail Bag 1044, Zaria.

MID-WESTERN STATE Permanent Secretary, Ministry of Agriculture and Natural Resources, Benin City.

REPUBLIC OF IRELAND To be nominated.

ST. HELENA Agricultural and Forestry Officer, Dept. of Agriculture and Forestry, Scotland.

SEYCHELLES Director of Medical Services, Department of Agriculture, P.O. Box 54, Victoria, Mahe.

SIERRA LEONE Director of Veterinary Services, Teko, via Makeni.

SRI LANKA Dr. S.B. Dhanapala, Assistant Director of Agriculture (Veterinary Research), Veterinary Research Institute, Gannoruwa, Peradeniya.

SWAZILAND Dr. A.M. Khoza, Chief Veterinary Officer, Box 162, Mbabane.

TANZANIA Chief Veterinary Research Officer, c/o Veterinary Department, Dar-es-Salaam.

TRINIDAD & TOBAGO Technical Officer (Animal Husbandry), Department of Agriculture, St. Clair, Port of Spain.

UGANDA Chief Research Officer, Animal Health Research Centre, P.O. Box 24, Entebbe.

WINDWARD ISLANDS

GRENADA Superintendent of Agriculture, Dept. of Agriculture, St. Georges.

ST. LUCIA Agricultural Superintendent, Dept. of Agriculture, Castries, St. Lucia, West Indies.

ST. VINCENT Superintendent of Agriculture, Dept. of Agriculture, Kingstown, St. Vincent, West Indies.

ZAMBIA Dr. S.M. Silangwa, University of Zambia, P.O. Box 2379. Lusaka.

HELMINTHOLOGICAL ABSTRACTS

Series A - Volume 47

CONTENTS

List of Serial Publications scanned 1

Review Article: Bovine Schistosomiasis in Southern Africa by J.A. Lawrence 261

ABSTRACTS

ANIMAL HOSTS

General Surveys	–	43	97	141	183	219	271	315	367	–	–	–
Primates (including man)	15	43	97	141	183	219	271	315	367	407	453	505
Equines	16	47	100	–	185	222	275	320	370	411	–	509
Ruminants	17	48	101	145	186	222	276	320	370	411	457	509
Pigs	–	49	102	146	186	224	278	321	371	413	459	511
Carnivores	18	50	103	146	186	224	278	322	372	413	459	511
Rodents, Insectivores and Lagomorphs...	18	51	104	147	187	224	278	322	372	414	460	512
Marine mammals	–	51	–	–	188	–	–	323	–	–	461	512
Other mammals	–	–	–	147	188	–	279	–	373	414	461	512
Birds	18	52	104	147	188	225	279	323	373	415	462	512
Reptiles	–	52	104	148	190	226	–	324	–	415	463	514
Amphibians	–	52	104	148	190	226	279	324	374	416	463	514
Fish	18	53	104	149	190	226	279	324	374	416	463	514
Invertebrates	19	53	105	150	190	227	280	325	375	418	465	515
Mixed groups	20	56	107	153	192	229	281	328	377	420	467	519
ASSOCIATIONS	20	57	108	154	192	229	282	329	378	420	468	520
MORPHOLOGY, TAXONOMY AND NOMENCLATURE	21	57	108	154	192	230	283	330	378	421	468	521
Monogenea	21	57	108	154	–	230	283	330	378	421	468	521
Aspidobothria	–	–	–	155	192	230	–	–	378	–	–	–
Digenea	21	58	109	155	192	231	283	330	379	422	469	522
Cestoda	24	60	110	156	194	232	284	333	380	424	473	523
Cestodaria	24	–	–	–	–	–	–	–	–	–	–	525
Acanthocephala	24	61	–	157	–	233	285	–	381	425	474	525
Nematoda	24	61	–	157	194	233	285	334	381	425	474	525
Nematomorpha	–	–	–	–	–	234	–	–	–	–	–	–
Miscellaneous	–	64	113	–	196	–	–	336	383	427	476	527

IMMUNITY, SEROLOGY AND RESISTANCE	25	64	113	160	196	234	287	336	383	428	476	527
PATHOGENESIS AND PATHOLOGY ...	28	70	119	165	200	238	290	343	389	433	484	535
BIOCHEMISTRY AND PHYSIOLOGY ...	30	76	122	167	203	241	295	346	393	437	486	538
ECOLOGY AND BEHAVIOUR	31	79	123	170	205	243	297	349	395	439	488	542
GEOGRAPHICAL DISTRIBUTION ...	33	81	125	171	–	244	298	350	397	–	489	544
EPIDEMIOLOGY AND EPIZOOTIOLOGY	33	81	125	171	206	245	299	351	397	440	489	544
CONTROL	34	83	128	172	208	247	300	353	398	442	492	545
TECHNIQUE	38	89	134	177	212	253	309	360	403	447	496	551
LIFE-HISTORY	38	91	135	178	213	255	309	361	403	448	497	552
CYTOLOGY, GENETICS AND EVOLUTION	40	93	136	178	214	256	311	362	404	449	499	554
HIRUDINEA	40	93	137	179	214	257	312	363	405	449	500	554
UNCLASSIFIED	40	94	137	179	215	257	–	363	405	449	501	555
BOOKS, NON-PERIODICALS AND CONFERENCES	41	94	137	179	215	258	312	363	405	450	–	555
REPORTS	41	96	139	180	216	260	313	364	406	451	502	556
AUTHOR INDEX												557
SUBJECT INDEX												583

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 43

Page	*Abstract*	*Line*	
1228	Col. 2		Between lines 4 and 5 insert '*Camallanus atropusi* n.sp. 4997 *Camallanus dollfusi* n.sp. 4997'
1237	Col. 1	26	For 'India' read 'Bangladesh'
1237	Col. 1	28	For 'India' read 'Bangladesh'
1308	Col. 1	24	delete
1308	Col. 1	25	delete

Volume 45

186	1078	10	For '*Cephalurus*' read '*Cephaluris*'
1329	Col. 1	14	For '*Cephalurus*' read '*Cephaluris*'
1460	Col. 2	53	For '*Cephalurus*' read '*Cephaluris*'
1511	Col. 1	52	For 'Arica' read 'Africa'
1553	Col. 2	25	For '*Cephalurus*' read '*Cephaluris*'

Volume 46

227	1012	2	For '*Kiev*' read '*Vladivostok*'

Volume 47

58	483	40	After 'seminal' insert 'receptacle and in the'
111	1072	34	Add '*Gelanostrongylus* is suppressed.'
146	1493	7	Insert 'one coyote and' before 'one coyote-dog'
154	1589	12	For '*P.*' read '*Polystoma*'
159	1625	1	For 'Richardson, P.M.' read 'Richardson, P.N.'
291	3005	1	For '*Ascaris*' read '*Ascaridia*'
293	3032	4	After '*Tezisy*' insert '*dokladov*'
306	3192	22	After 'confined to' insert 'areas from'
422	4589	1	For 'Hau' read 'Hsu'
431	4665	1	For 'Mahoum, A.F.' read 'Mahmoud, A.A.F.'
454	4916	11	After '85%' insert 'of cases of'
456	4952	1	For 'Roy' read 'Rey'

ABBREVIATIONS

The following abbreviations are used in the subject index:

ALS	Antilymphocyte serum
BFT	Bentonite Flocculation Test
CEP	Counter electrophoresis = electrosynerisis
CFT	Complement Fixation Test
CHR	Cercarienhulenreaktion
COPT	Circumoval Precipitin Test
DASS	Defined antigen substrate spheres
ELISA	Enzyme linked immunoabsorbent assay
ES	Excretory/Secretory antigens
(g)	Geographical
(h)	Host
Hb	Haemoglobin
FAT(I)	(Indirect) Fluorescent Antibody Test
HAT(I)	(Indirect) Haemagglutination Test
ICA	Immuno cyto adherence
ID	Immuno diffusion
IEP	Immunoelectrophoresis
Ig	Immunoglobulin
IT	Intradermal Test
LTF	Latex Flocculation Test
MGT	Machado Guerra Test
MIT	Macrophage Inhibition Test
PCA	Passive Cutaneous Anaphylaxis
RAST	Radioallergosorbent Test
RIST	Radioimmunosorbent Test
RPT	Ring Precipitation Test

On line searching

Since 1976 the indexes and abstracts of this journal have been available in machine readable form. Further details may be obtained from: The Production Manager, Systems Group, Commonwealth Agricultural Bureaux, Farnham House, Farnham Royal, Slough SL2 3BN, England.

HELMINTHOLOGICAL ABSTRACTS, SERIES A

VOLUME 7

AUTHOR INDEX

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries and there are no cross-references to show joint authorship. Thus a paper by "Brown, B.; Jones, A.; Smith, J." would have three separate entries: "Brown, B", "Jones, A.", and "Smith, J.". There is no distinction between subsidiary and senior authors. Apparent inconsistencies may appear in the spelling of authors' names; this is because variations in spelling occur in primary journals. Authors' names in this index are spelt as they appeared in the original paper. If we have knowledge of their identity, alternative versions may also be given.

HELMINTHOLOGICAL ABSTRACTS, SERIES A

VOLUME 7

SUBJECT INDEX

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries. The leading key word unit in an entry appears in **bold type**. Aggregation of entries sharing identical keyword units is indicated by indentation. Basically there are four levels of indentation – parasite, host, country, subject aspect.

Hosts are indexed under their specific names, where given, except domesticated animals (e.g. cat, pig, sheep) and where numerous hosts of the same group are listed in the one paper (e.g. amphibians, birds). The use of alternative scientific names for host or parasite is avoided wherever possible but in cases in which nomenclatorial or taxonomic confusion still exists the same organism may appear under more than one name.

In an index of this kind it is not possible to assume that any chosen entry will necessarily give complete coverage of the subject in question. After consulting the chosen entry it may be necessary to consult index entries for related larger or smaller groupings or for alternative names.

Thus, when the subject matter concerns organisms, whether host or parasite, entries concerned with related group, generic or popular names should be consulted, e.g.

> Rodents, see also Animals, Mammals, Muridae, *Rattus,* Vertebrates, etc. Cestodes, see also Platyhelminthes

A similar procedure is necessary with geographical entries, e.g.

> East Africa, see also Africa, Kenya, Tanzania, Uganda

New records are qualifed by (h.) for the first record of the named parasite in the named host and by (g.) for the first record of the named parasite in the named country or region.

Anthelmintics are listed alphabetically under that word, by their common name (where known), their trade name, protocode number, or by their chemical name. Wherever possible proprietary drugs are cross-referenced to the appropriate common name (as given in Bard, J.H., 1972, "Anthelmintic Index". *Tech. Comm. No. 43 of the Commonwealth Institute of Helminthology*). No classification of the drugs is attempted. They are also entered under the name of the parastie or disease and under the name of the host.